



CHANGE NOTICE

136941-001

INTELLEC SERIES IV MICROCOMPUTER DEVELOPMENT SYSTEM OVERVIEW

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(READ THIS FIRST)



**INTELLEC SERIES IV
MICROCOMPUTER DEVELOPMENT
SYSTEM OVERVIEW**

(READ THIS FIRST)

Order Number: 121752-004

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REV.	REVISION HISTORY	DATE
-001	Original Release	03/83
-002	Revised document to support Software Release 2.5.	11/83
-003	Revised document to support Software Release 2.8.	4/84
-004	Revised document to support Software Release 3.0	09/85



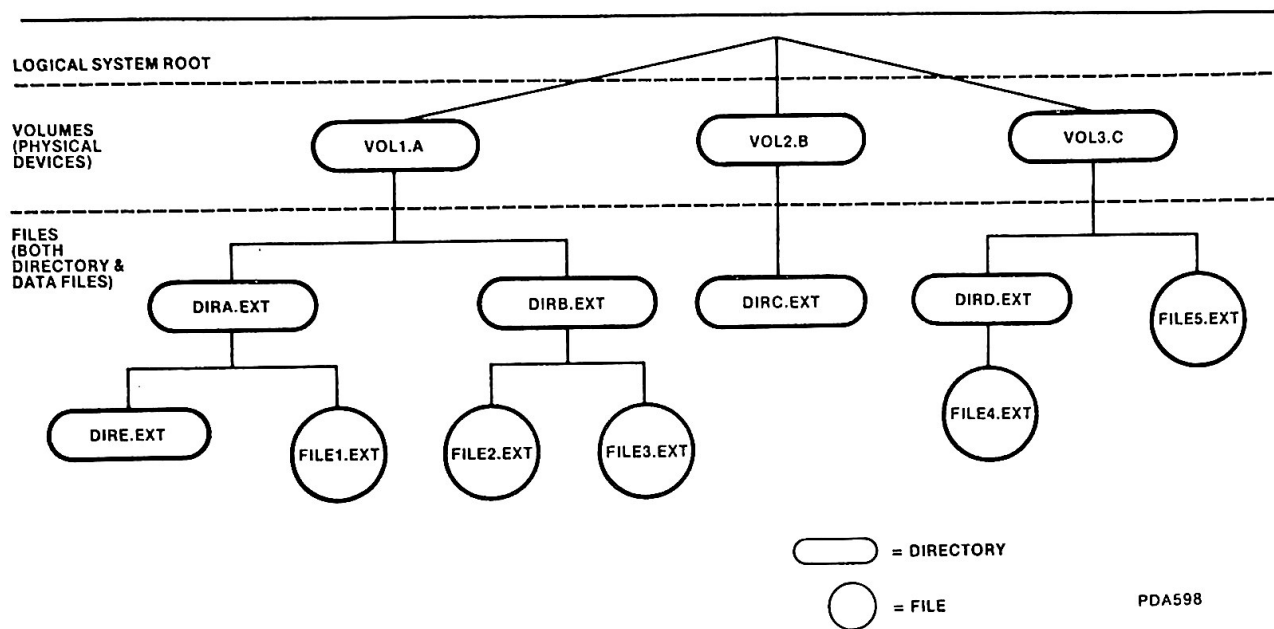


Figure 1-2. Hierarchical File Structure

When entering commands, programs or utilities, files are accessed by specifying the pathname (directories/sub-directories/filename) of the file within the file structure. Also, logical names can conveniently be substituted for pathnames, minimizing keystroke effort.

The iNDX file system provides file protection features in the form of access rights. Access rights are set for every file in the file system, for the owner or creator of the file and for all user's access to the file. Access rights include Read, Write and Delete, All, None, Display, and Add. A typical condition is for the owner to have total (ALL) access rights, with other user's (World) having None or Read.

1.2.1.2 Multitasking

There are three different modes of operation in the iNDX operating system that allow you to use the multitasking capability of the Series IV. The foreground/background mode permits execution of interactive programs in the foreground region while the background is simultaneously running a noninteractive job. The TOGGLE mode allows simultaneous interactive execution of programs in both user regions. A "toggle key" on the Series IV keyboard is used to move from one region to the other (the region that you are "in" is displayed on the console and accepts commands from the keyboard).

The third mode of operation on the Series IV is the Multi-user mode. In Multi-user mode, a second terminal is attached to Serial Channel 1 or 2. The terminal operates as an independent system, accessing one region, while the console and keyboard access the other region.

1.2.1.3 The Series IV as a Terminal

The Series IV has two software features available that allow it to act as a terminal. The Asynchronous Communication Link (ACL) software package and the

STTY Terminal (within iNDX operating system) options both provide terminal emulation, enabling the Series IV to connect to a host computer and allowing limited file transfer capabilities.

1.2.1.4 Syntax Guide

The Syntax Guide is part of the Command Line Interpreter (CLI). The Command Line Interpreter is the part of the operating system that provides interaction with the user. It provides the following facilities: command line editing, menu display, and keyword completion.

The iNDX operating system presents commands, options, and executable files as menu entries on the screen. Up to eight entries can be displayed at one time. These entries are accessed by pressing the associated soft keys labeled F0–F7 on the Series IV keyboard. The first (leftmost) entry is associated with F0, the second with F1, etc.

These entries can also be accessed by typing the capital letters of each entry as it is displayed on the screen. For example, you need only type AE for the editing program AEDIT. The Syntax Guide automatically inserts the remaining letters of the keyword into the command text. This feature is called keyword completion.

1.2.1.5 Batch Processing

The Command Line Interpreter (CLI) also allows the execution of command files containing groups of non-interactive iNDX commands. Command file control commands also exist that allow conditional execution, looping, and passing parameters (from the command line or special parameter files). Two commands providing this service are BATCH, which allows the creation and execution of the command file, and SUBMIT, which executes an existing command file.

1.2.1.6 Help Text

For each menu entry, the accompanying Help Text is obtained by holding down the SHIFT key while pressing the appropriate soft key. The Help Text describes a given command, option, or executable file.

1.2.2 AEDIT Text Editor

An important feature of the Series IV system is the AEDIT text editor. AEDIT runs under iNDX and can be invoked from the console. AEDIT allows:

- Text display and scrolling on the screen.
- Cursor movement to any point on the screen and jumping to any point in the file instantly.
- Writing over existing text.
- Easy insertions and deletion of text.
- Character string search and replacement.
- Block move or copy of text within a file or to another file.
- Macro creation allowing the execution of several commands with at once, simplifying repetitive editing tasks.

1.4.1 Future Products

The list of add-on products just given is by no means complete. Additional systems products will continue to become available to support Intel microprocessors and microcomputer systems.

1.4.11 Packaging of the Series IV

The Series IV system comes complete with a System-to-System Link; software diskettes, which include the iNDX operating system disk and all operating system extensions; and the following technical manuals:

- *Intellec Series IV Microcomputer Development System Overview*
- *Intellec Series IV Installation and Checkout Manual*
- *Intellec Series IV Operating and Programming Guide*
- *Intellec Series IV Pocket Reference*
- *Intellec Series IV ISIS-IV User's Guide*
- *Intellec Series IV ISIS-IV Pocket Reference*
- *AEDIT Text Editor User's Guide*
- *AEDIT Text Editor Pocket Reference*
- *DEBUG-88 User's Guide*
- *iAPX 86/88/186/188 User's Manual*
- *iAPX 88 Book*
- *iAPX 86, 88 Family Utilities User's Guide*
- *An Introduction to ASM86*
- *ASM86 Macro Assembler Operating Instructions for 8086-Based Systems*
- *ASM86 Language Reference Manual*
- *ASM86 Macro Assembler Pocket Reference*
- *MCS-80/85 Family User's Manual*
- *MCS-80/85 Utilities User's Guide for 8080/8085-Based Development Systems*
- *8080/8085 Floating-Point Arithmetic Library User's Manual*
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